

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1635	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/11/20 18:56
S1	1	"20050049665"	US-PGPUB; USPAT	AND	OFF	2005/07/27 11:29
S2	23	(Brabec near2 Scott near J) or (Honeck near2 Jordon near2 D) or (Schindeldecker near2 William near2 J)	US-PGPUB; USPAT	AND	OFF	2005/07/27 11:11
S3	16	((("6501994") or ("6430447") or ("6097986") or ("5948015") or ("5871529") or ("5871526") or ("5458630") or ("5456708") or ("5443492") or ("5282844") or ("4502492") or ("4440178") or ("4313443") or ("3981309") or ("3749101") or ("3476116"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/07/27 11:11
S4	1247	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/02 16:22
S5	56	(607/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:06
S6	158	(607/127).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:06
S7	34	(607/131).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:06
S8	126	(607/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:07
S9	17	S4 and (heli\$ and impedance and polarization)	US-PGPUB; USPAT	AND	OFF	2007/08/02 16:22

S11	57	S4 and ((helix or helical) and ((high or higher or highest) near4 impedance) or ((low or lower or lowest) near4 polarization))	US-PGPUB; USPAT	AND	OFF	2005/07/27 17:06
S12	5	S4 and ((helix or helical) and ((high or higher or highest) near4 impedance) and ((low or lower or lowest) near4 polarization))	US-PGPUB; USPAT	AND	OFF	2006/01/18 11:07
S14	2	((("4502492") or ("4,972,848")).PN.	US-PGPUB; USPAT	OR	OFF	2005/07/28 10:39
S15	1	("3,476,116").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/28 11:22
S16	27	("5282844").URPN.	USPAT	AND	OFF	2005/07/28 13:01
S17	1	("5,282,844").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/03 13:52
S18	618	(607/104).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/08/03 14:29
S19	66	S18 and (helix or helical)	US-PGPUB; USPAT	AND	OFF	2005/08/03 14:30
S20	1	("5282844").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/03 15:19
S21	2	((("6086582") or ("5431649")).PN.	US-PGPUB; USPAT	OR	OFF	2005/08/04 19:45
S22	1	("5,324,325").PN.	US-PGPUB; USPAT	OR	OFF	2005/08/04 19:45
S23	58	(607/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:10
S24	34	(607/131).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:09
S25	164	(607/127).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:08
S26	132	(607/120).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:08
S27	1312	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/01/18 11:07

S28	7	S27 and ((helix or helical) and ((high or higher or highest) near4 impedance) and ((low or lower or lowest) near4 polarization))	US-PGPUB; USPAT	AND	OFF	2006/01/18 11:07
S29	1124	ringer and lead and medical and electrode	US-PGPUB; USPAT	AND	OFF	2006/07/05 16:28
S30	1	("6768924").PN.	US-PGPUB; USPAT	OR	OFF	2006/07/05 16:27
S31	21	ringer\$ (medical same lead) and (electrode or electrodes) and helix	US-PGPUB; USPAT	AND	OFF	2006/07/05 17:29
S32	90	ringer\$ and (medical same lead) and (electrode or electrodes)	US-PGPUB; USPAT	AND	OFF	2006/07/05 17:29
S33	249	fluid and (medical same lead) and (electrode or electrodes) and helix	US-PGPUB; USPAT	AND	OFF	2006/07/05 17:40
S34	10	10/262046	US-PGPUB; USPAT	AND	OFF	2006/07/05 17:40
S35	35	("20020016622"   "20020077685"   "20030093104"   "3737539"   "4106512"   "4360031"   "4506680"   "4577642"   "4606118"   "5002067"   "5143090"   "5246014"   "5353800"   "5396902"   "5415637"   "5431649"   "5447533"   "5496360"   "5807249"   "5837006"   "5906613"   "5987746"   "6010526"   "6052625"   "6102887"   "6144882"   "6192280"   "6346099"   "6366819"   "6416510"   "6493591"   "6512957"   "6567704"   "6613062").PN. OR ("6931286").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2006/07/05 17:42

S36	115	lead with (tines and helix)	US-PGPUB; USPAT	AND	OFF	2006/07/07 15:24
S37	198	lead same (tines and helix)	US-PGPUB; USPAT	AND	OFF	2006/07/07 15:22
S38	18	lead with tines with helix	US-PGPUB; USPAT	AND	OFF	2006/07/07 15:24
S39	1471	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/02 16:22
S40	1471	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/02 16:22
S41	24	S40 and (heli\$ and impedance and polarization)	US-PGPUB; USPAT	AND	OFF	2007/08/02 16:22
S42	50	(US-20050049665-\$ or US-20050131509-\$ or US-20040068299-\$ or US-20040133259-\$ or US-20040143314-\$ or US-20040147963-\$). did. or (US-6253110-\$ or US-6501994-\$ or US-6430447-\$ or US-6097986-\$ or US-5948015-\$ or US-5456708-\$ or US-5443492-\$ or US-5282844-\$ or US-5871529-\$ or US-5871526-\$ or US-5458630-\$ or US-4502492-\$ or US-4440178-\$ or US-5755762-\$ or US-4313443-\$ or US-3981309-\$ or US-3749101-\$ or US-3476116-\$ or US-6038463-\$ or US-5374287-\$ or US-4827940-\$ or US-4628943-\$ or US-6931286-\$ or US-6296630-\$ or US-6129751-\$ or US-5906613-\$).did. or (US-5837007-\$ or US-5353800-\$ or US-6360129-\$ or US-6567704-\$ or US-5431649-\$ or US-	US-PGPUB; USPAT	AND	OFF	2008/02/28 16:42

		6091978-\$ or US- 4972848-\$ or US- 4917106-\$ or US- 5324325-\$ or US- 4953564-\$ or US- 4282885-\$ or US- 6416510-\$ or US- 6298272-\$ or US- 5496360-\$ or US- 6309370-\$ or US- 6086582-\$ or US- 5324327-\$ or US- 5408744-\$).did.				
S43	33	S42 and helix	US-PGPUB; USPAT	AND	OFF	2008/02/28 16:42
S44	44	(607/131).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/03/04 11:08
S45	388	fluid and (heli\$ and impedance and polarization) and electrode and (lead or catheter)	US-PGPUB; USPAT	AND	OFF	2008/03/04 11:34
S46	87	(conductive with fluid) and (heli\$ and impedance and polarization) and electrode and (lead or catheter)	US-PGPUB; USPAT	AND	OFF	2008/03/04 11:35
S47	204	("2050904"   "4033351"   "4040426"   "4043342"   "4116198"   "4184492"   "4202337"   "4228800"   "4232676"   "4248231"   "4326529"   "4381007"   "4476862"   "4532924"   "4548207"   "4567890"   "4593691"   "4674499"   "4682596"   "4706667"   "4765331"   "4823791"   "4860752"   "4931047"   "4936301"   "4943290"   "4967765"   "4976711"   "4979948"   "4998933"   "5007908"   "5009656"   "5035696"	US-PGPUB; USPAT; USOCR	AND	OFF	2008/03/04 11:36

"5057105"	
"5057106"	"5078717"
"5080660"	
"5083565"	"5098431"
"5108391"	
"5112330"	"5122138"
"5125928"	
"5178620"	"5190517"
"5192280"	
"5195959"	"5196007"
"5197963"	
"5217457"	"5249585"
"5267994"	
"5267997"	"5273524"
"5277201"	
"5281216"	"5281218"
"5290282"	
"5300069"	"5312400"
"5314406"	
"5324254"	"5330470"
"5334140"	
"5334183"	"5336220"
"5342357"	
"5366443"	"5370675"
"5380277"	
"5383876"	"5383917"
"5395312"	
"5395368"	"5403311"
"5417687"	
"5419767"	"5423812"
"5441499"	
"5454809"	"5456662"
"5458596"	
"5490850"	"5505728"
"5505730"	
"5514130"	"5556397"
"5562503"	
"5562703"	"5569242"
"5571101"	
"5584872"	"5609151"
"5624439"	
"5630812"	"5647869"
"5658278"	
"5662680"	"5674191"
"5676693"	
"5681282"	"5683366"
"5683386"	
"5683387"	"5695495"
"5697281"	
"5697536"	"5697882"
"5697909"	
"5700262"	"5707349"

		"5718702"   "5725524"   "5728094"   "5733282"   "5738114"   "5743870"   "5746224"   "5749869"   "5766153"   "5775338"   "5800379"   "5800429"   "5807395"   "5810764").PN. OR ("5817049"   "5820580"   "5823197"   "5827277"   "5843021"   "5843077"   "5871469"   "5885277"   "5888198"   "5891095"   "5897553"   "5921983"   "5944715"   "6004319"   "6013076"   "6015406"   "6027501"   "6039734"   "6056746").PN. OR ("6203542").URPN.				
S48	20	("3815611"   "4461085"   "4600017"   "4771780"   "4784151"   "4924872"   "5109842"   "5261418"   "5514171"   "5693074"   "5933002"   "5978693"   "6016443"   "6021350"   "6063022"   "6083170"   "6256538"   "6264606"   "6272371").PN. OR ("6591143").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2008/03/04 11:40
S49	47	(607/131).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/15 13:25
S50	73	(607/121).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/15 13:26
S51	1567	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/09/15 13:26
S52	1577	(607/122).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/13 22:34

S53	52	(US-20050049665-\$ or US-20050131509-\$ or US-20040068299-\$ or US-20040133259-\$ or US-20040143314-\$ or US-20040147963-\$). did. or (US-6253110-\$ or US-6501994-\$ or US-6430447-\$ or US-6097986-\$ or US-5948015-\$ or US-5456708-\$ or US-5443492-\$ or US-5282844-\$ or US-5871529-\$ or US-5871526-\$ or US-5458630-\$ or US-4502492-\$ or US-4440178-\$ or US-5755762-\$ or US-4313443-\$ or US-3981309-\$ or US-3749101-\$ or US-3476116-\$ or US-6038463-\$ or US-5374287-\$ or US-4827940-\$ or US-4628943-\$ or US-6931286-\$ or US-6296630-\$ or US-6129751-\$ or US-5906613-\$).did. or (US-5837007-\$ or US-5353800-\$ or US-6360129-\$ or US-6567704-\$ or US-5431649-\$ or US-6091978-\$ or US-4972848-\$ or US-4917106-\$ or US-5324325-\$ or US-4953564-\$ or US-4282885-\$ or US-6416510-\$ or US-6298272-\$ or US-5496360-\$ or US-6309370-\$ or US-6086582-\$ or US-5324327-\$ or US-5408744-\$ or US-6203542-\$ or US-6591143-\$).did.	US-PGPUB; USPAT	AND	OFF	2009/06/03 18:49
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S55	54	implantable and (heli\$ and (high same impedance) and (low same polarization))	US-PGPUB; USPAT	AND	OFF	2009/06/04 11:24
S56	124	fluid and (heli\$ and (high same impedance) and (low same polarization))	US-PGPUB; USPAT	AND	OFF	2009/06/04 11:25
S57	52	(US-20050049665-\$ or US-20050131509-\$ or US-20040068299-\$ or US-20040133259-\$ or US-20040143314-\$ or US-20040147963-\$). did. or (US-6253110-\$ or US-6501994-\$ or US-6430447-\$ or US-6097986-\$ or US-5948015-\$ or US-5456708-\$ or US-5443492-\$ or US-5282844-\$ or US-5871529-\$ or US-5871526-\$ or US-5458630-\$ or US-4502492-\$ or US-4440178-\$ or US-5755762-\$ or US-4313443-\$ or US-3981309-\$ or US-3749101-\$ or US-3476116-\$ or US-6038463-\$ or US-5374287-\$ or US-4827940-\$ or US-4628943-\$ or US-6931286-\$ or US-6296630-\$ or US-6129751-\$ or US-5906613-\$).did. or (US-5837007-\$ or US-5353800-\$ or US-6360129-\$ or US-6567704-\$ or US-5431649-\$ or US-6091978-\$ or US-4972848-\$ or US-4917106-\$ or US-5324325-\$ or US-4953564-\$ or US-4282885-\$ or US-	US-PGPUB; USPAT	AND	OFF	2009/06/04 11:48

		6416510-\$ or US- 6298272-\$ or US- 5496360-\$ or US- 6309370-\$ or US- 6086582-\$ or US- 5324327-\$ or US- 5408744-\$ or US- 6203542-\$ or US- 6591143-\$).did.				
S58	40	("3476116"   "4502492"   "4506680"   "4711251"   "4934381"   "4953564").PN. OR ("5282844").URPN.	US-PGPUB; USPAT; USOCR	AND	OFF	2009/06/04 11:49
S59	0	implantable and (heli\$ and (high near2 impedance) and (low near2 ionization))	US-PGPUB; USPAT	AND	OFF	2009/06/04 12:10
S61	0	implantable and (heli\$ and (high same impedance) and (low same ionization))	US-PGPUB; USPAT	AND	OFF	2009/06/04 12:10
S62	1	("5282844").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/04 12:18

### EAST Search History (I nterference)

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**11/ 20/ 2009 6:56:50 PM**

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